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NPIC/R-124/62
August 1962

PHOTOGRAPHIC INTERPRETATION REPORT

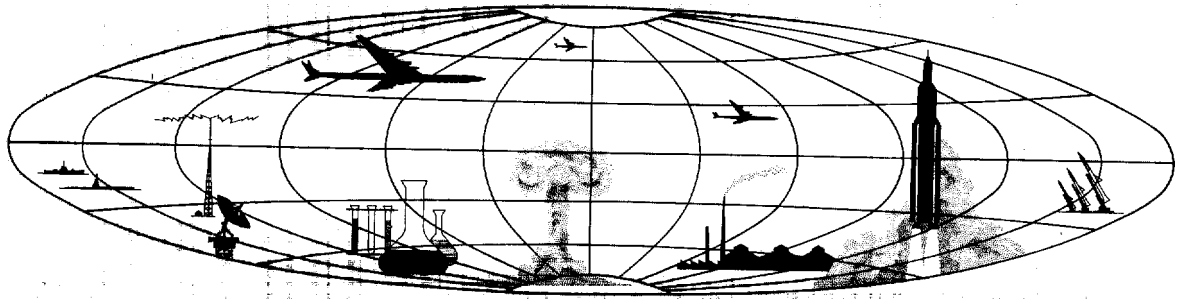
TERMINAL RANGE FACILITIES OF THE TYURA TAM MISSILE TEST RANGE, USSR

ARMY NAVY AIR [redacted] CIA

[redacted]

25X1

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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PHOTOGRAPHIC INTERPRETATION REPORT

TERMINAL RANGE FACILITIES OF THE TYURA TAM MISSILE TEST RANGE, USSR

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PREFACE

This report is designed primarily to provide an updated photo analysis of the terminal range facilities of the Tyura Tam Missile Test Range based [redacted] Whenever the [redacted] coverage did not permit additional analysis, however [redacted] coverage was reanalyzed. 25X1 25X1

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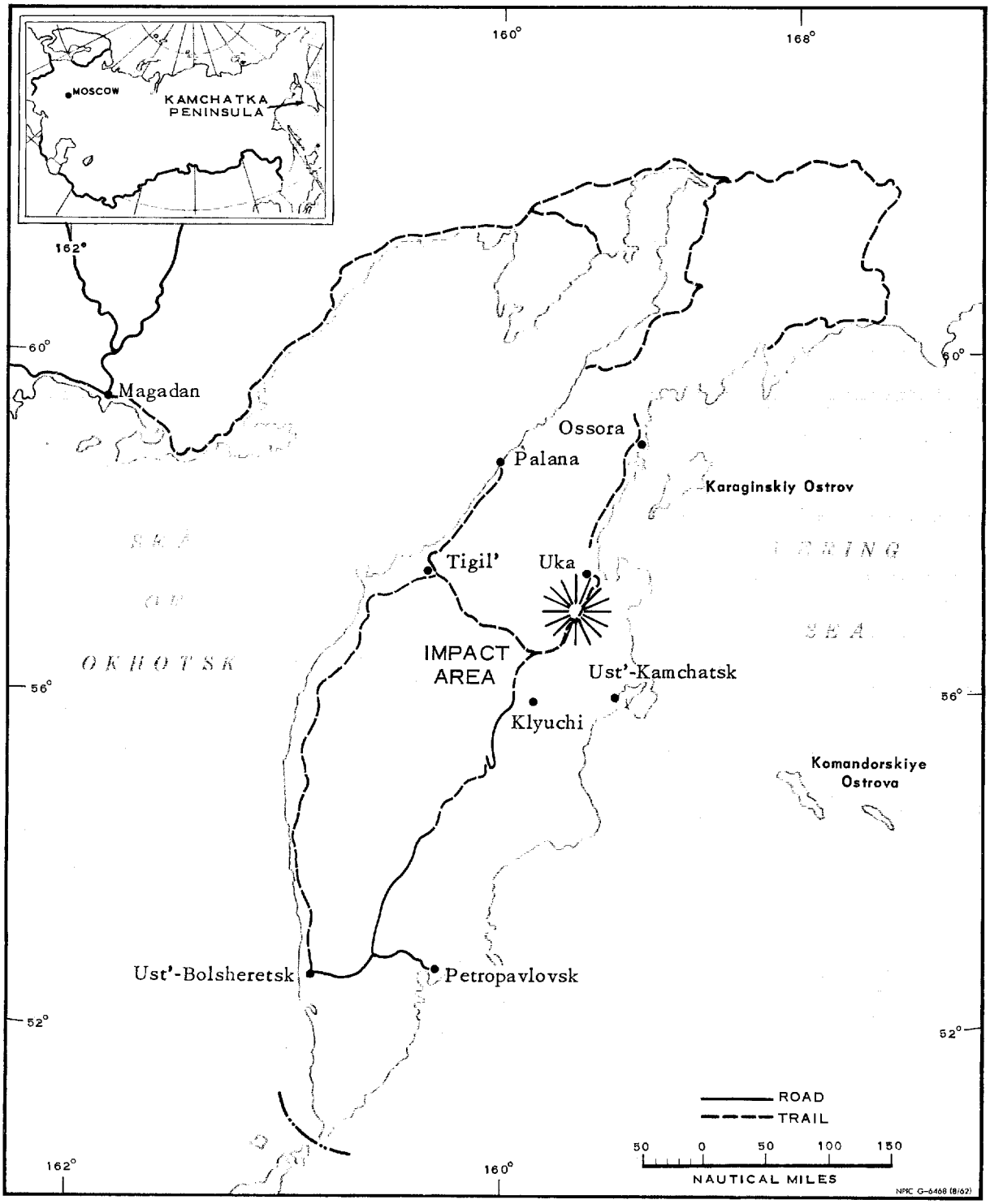

FIGURE 1. ORIENTATION MAP.

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SUMMARY

The terminal range facilities of the Tyura Tam Missile Test Range, which are located on the Kamchatka Peninsula, include the 3,500-nautical-mile (nm) impact area and instrumentation sites used in terminal trajectory tracking of ICBMs launched from the Tyura Tam Missile Test Center (Figure 1).

Although no antimissile launch facilities were identified on [redacted] 25X1 coverage of the Kamchatka Peninsula, facilities identified near Uka are similar to those associated with the electronics portion of the antimissile activity at the Sary Shagan Antimissile Test Center (SSATC). 1/ 2/ Photographic analysis, therefore [redacted] 25X1

[redacted] 25X1

Adverse photographic conditions such as cloud cover, scale, and haze hindered analysis of [redacted] photography for associated electronics or guided-missile activity on the Kamchatka Peninsula. Those portions of the area covered by [redacted] photography are shown on Figure 2. 25X1

The expansion of Instrumentation Site A near Uka is the most striking feature observed. This expansion, which has taken place since the 1957 [redacted] coverage, includes an airfield with hard-surfaced runway and taxiways, a 110-foot-diameter dome, and about 80 buildings. 25X1

IMPACT AREA

The impact area, located in a river valley, has its center at about 57-23N 161-43E (Figure 3). The area is bordered by mountainous and volcanic terrain and is unpopulated. Although there are no discernible communications lines, the area does contain a few tracks and trails.

The impact area is covered by photography that contains scattered to heavy clouds. The photography, where possible, was scanned in detail; however, no areas containing missile impact scars could be determined.

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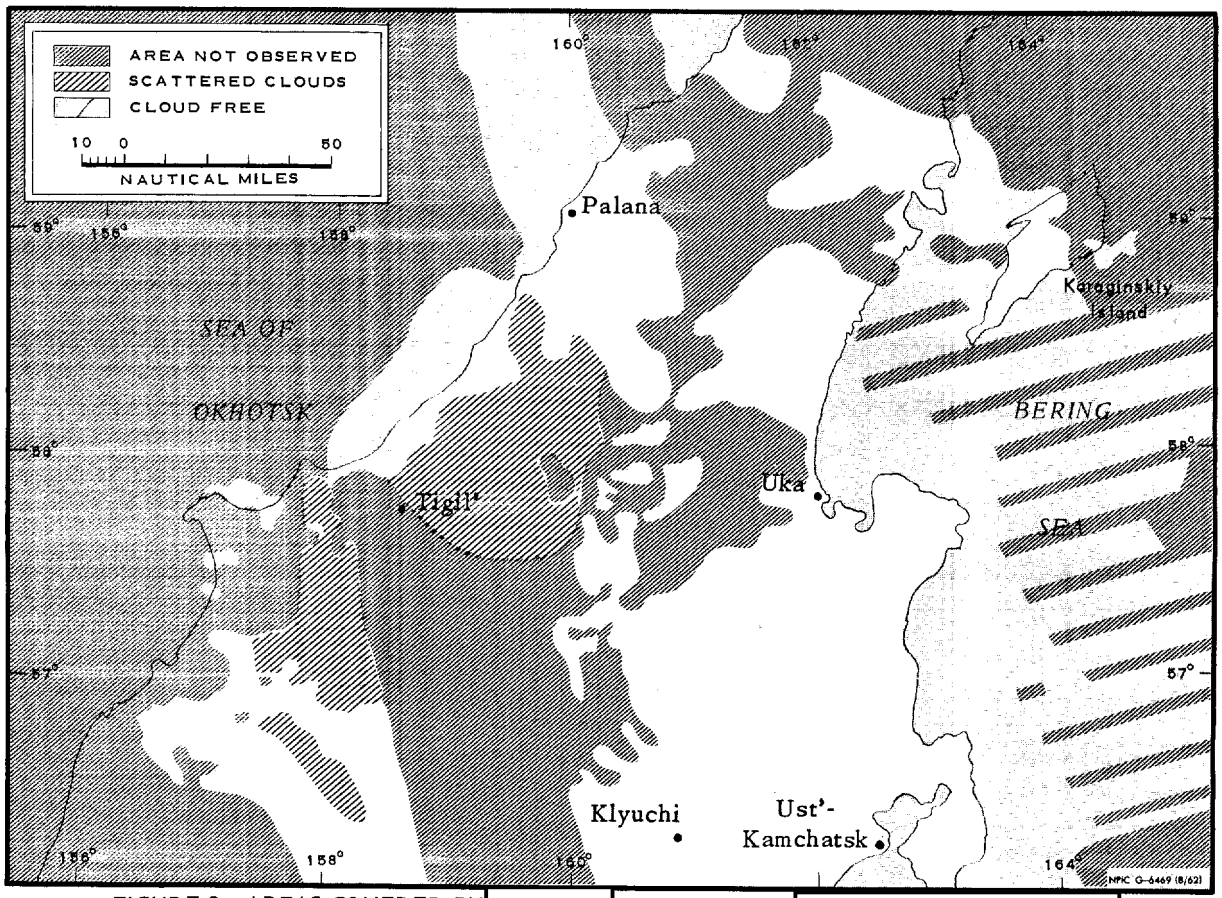

FIGURE 2. AREAS COVERED BY [redacted] PHOTOGRAPHY [redacted]

25X1

25X1

INSTRUMENTATION SITES

Five sites, previously identified as probable or firm instrumentation sites, are in or adjacent to the impact area (Figure 3). Site A is north of the town of Uka along the coast of Ukinskaya Guba (Bay). Sites B and C are northeast of the village of Yelovka. Sites D and E are along the coast of Ozernoy Guba. Sites A, B, and E, which form a triangle around the impact area, each contain a domed silo 20 feet in diameter and approximately 30 feet high with a building [redacted] attached to it. The dome, in each case, is on the end of the building pointed toward the impact area. This type of instrumentation is associated with Soviet missile ranges and has been observed many times. Sites A and B also contain an interferometer.

25X1

25X1

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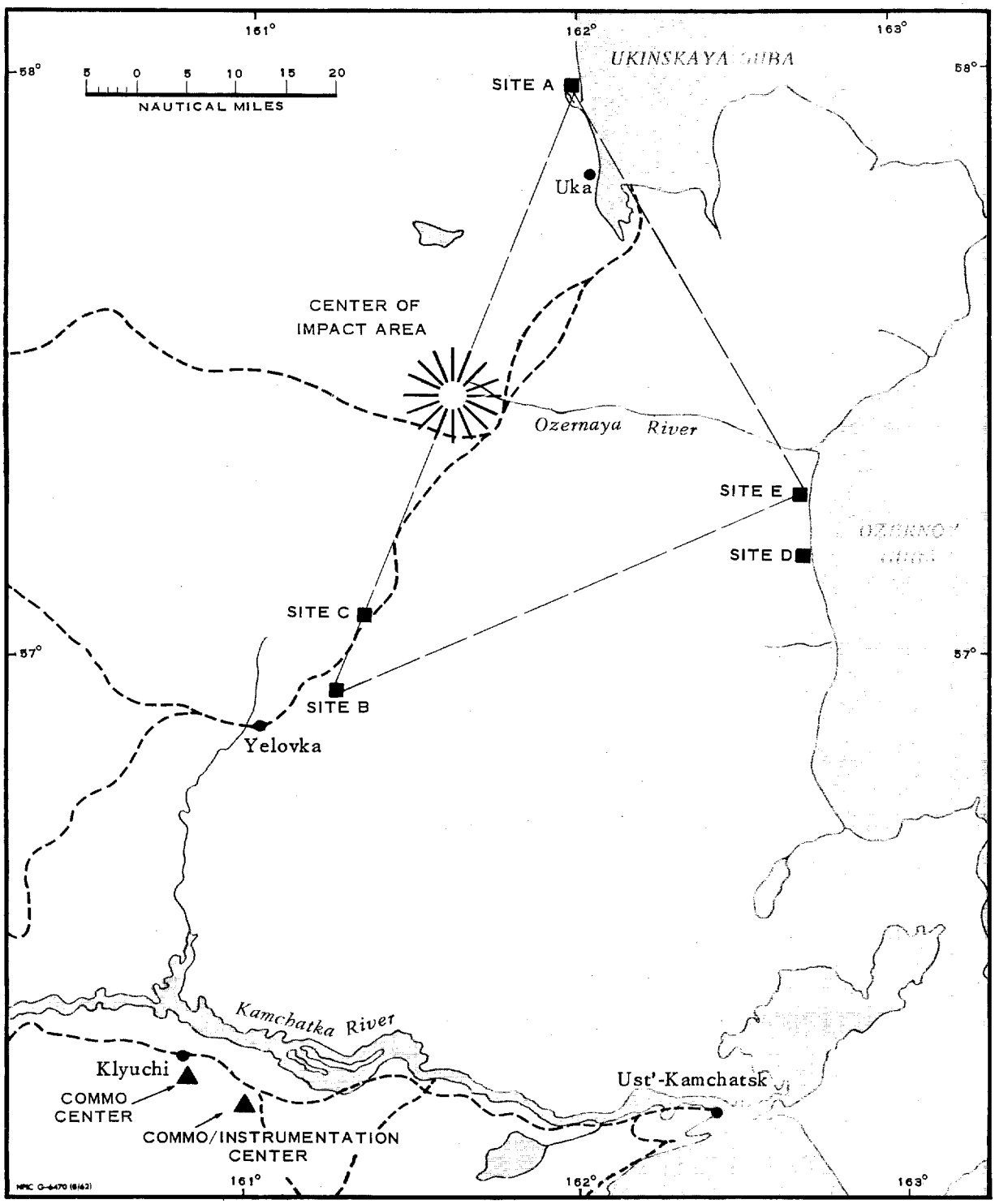

FIGURE 3. INSTRUMENTATION SITES, KAMCHATKA PENINSULA.

25X1

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Site A

This instrumentation site (Figure 4) is located at 57-51N 162-05E and, of all the instrumentation sites on Kamchatka Peninsula, shows the most readily observable physical change since 1957. The site was covered by [redacted] photography in 1957 and by oblique photography in 1960. 25X1

The outstanding additional features at Site A, observed on the 1960 photography, 1/ are a 6,300-foot permanent airfield, probably with hard-surfaced runway and taxiways, and a 110-foot-diameter dome in or near the fenced instrumentation area. The support area now probably is located in the newly developed area.

The newly developed area contains approximately 80 buildings that vary from large barracks- or administrative-type buildings to maintenance- and laboratory-type buildings. The domed building identified on 1957 photography within the fenced area is now believed to be a domed silo 20 feet in diameter with a building [redacted] attached to it. 25X1

Site B

This instrumentation site is located at 56-57N 161-15E, approximately 9 nm east-northeast of the village of Yelovka (Figure 5). Included in this site are an interferometer, similar to that at Site A and the one at the Tyura Tam rangehead, and a domed silo with a building attached, similar to that at Site A.

The quality of the [redacted] photography of this site precludes analysis beyond that previously reported. 4/ 5/ A reanalysis of [redacted] photography, however, indicated that one building in the instrumentation area, previously identified as having a dome on the roof, is rather a domed silo with a building attached. 25X1 25X1

Site C

This site, containing possible instrumentation, is located at 57-04N 161-20E, approximately 10 nm north-northeast of Site B. The quality of

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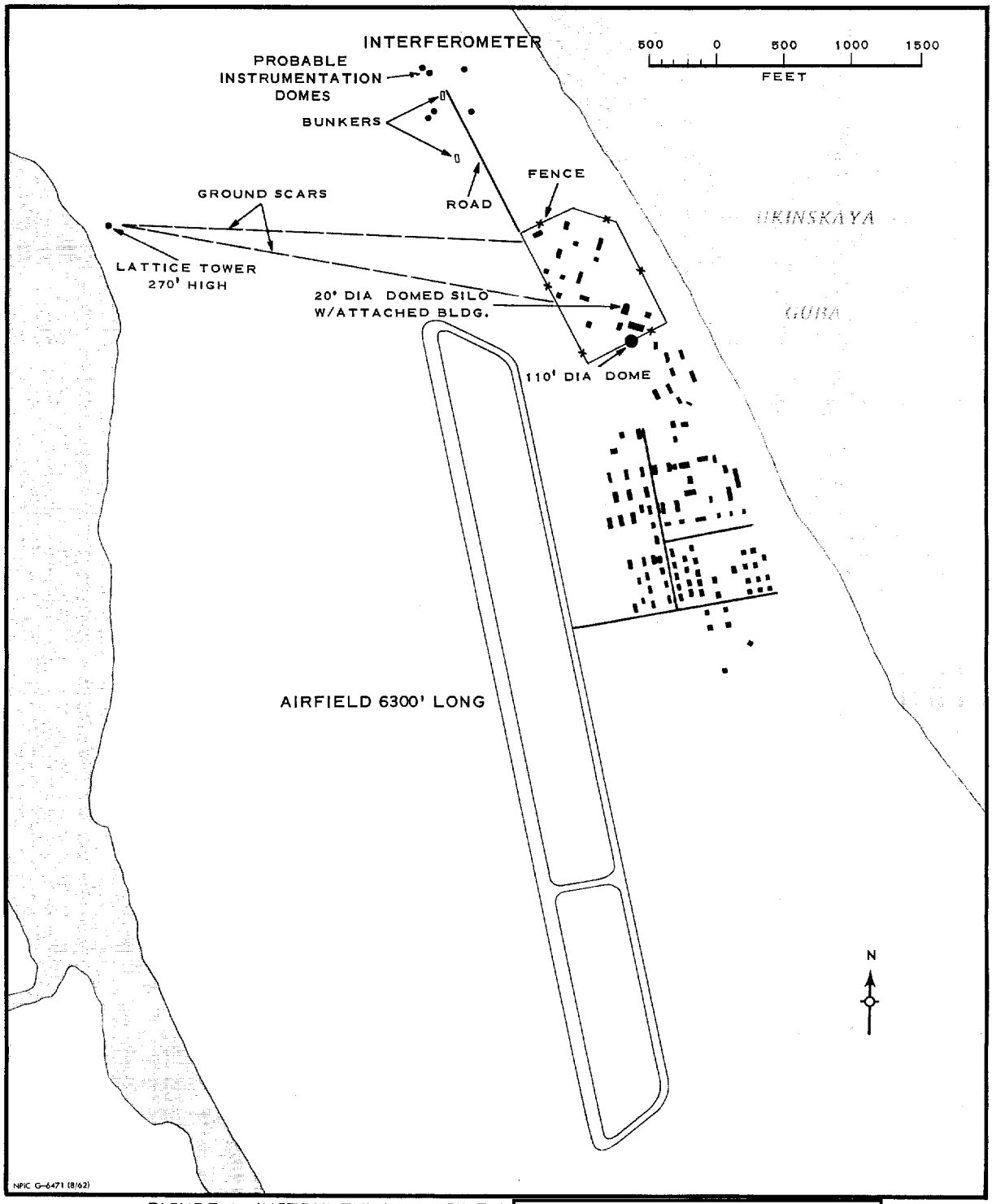

FIGURE 4. INSTRUMENTATION SITE A. [redacted]

25X1

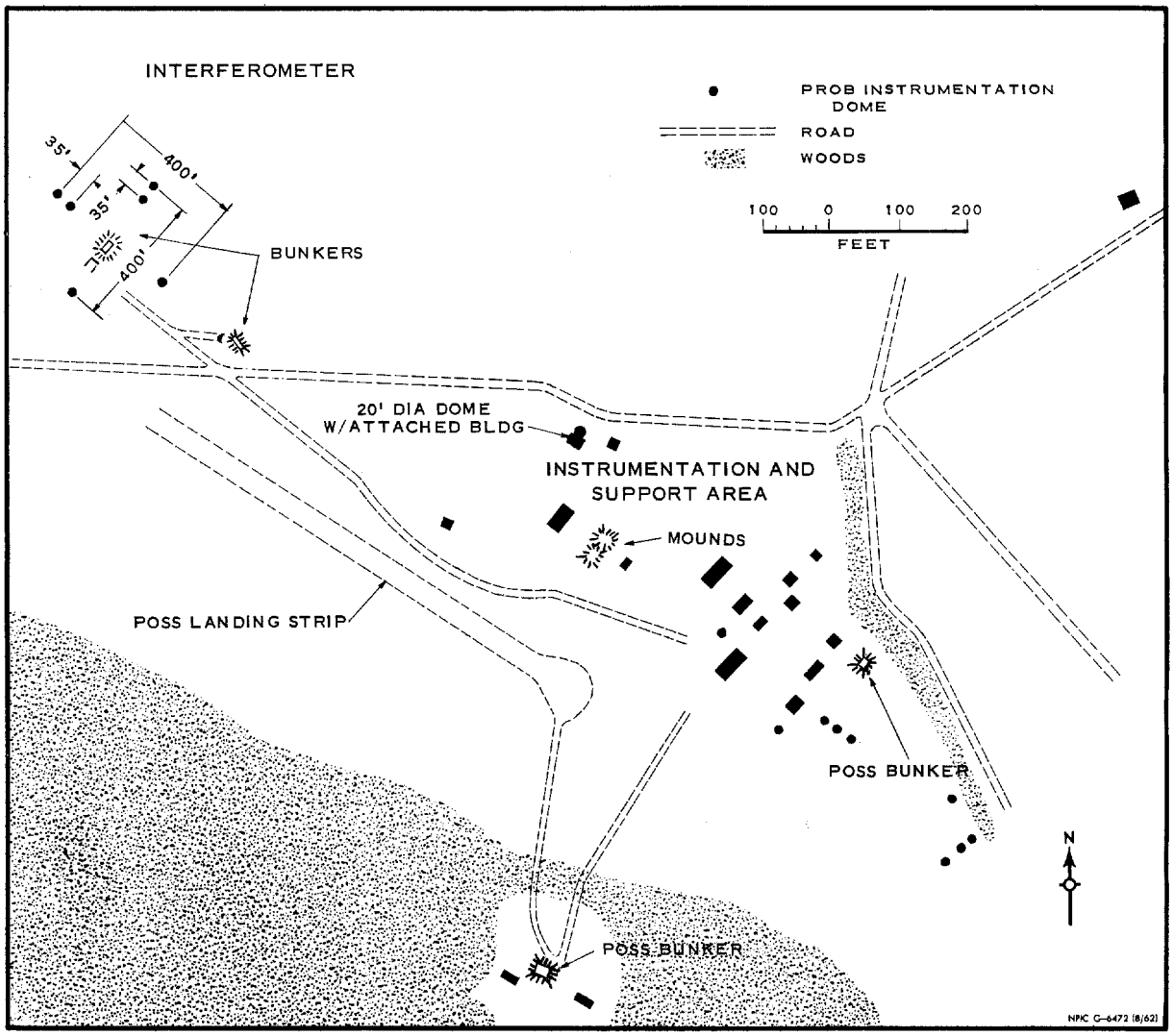

FIGURE 5. INSTRUMENTATION SITE B.

the [redacted] photography precluded analysis beyond that previously reported. 4/ 5/ A reanalysis of [redacted] photography, however, revealed that the five dome-shaped objects previously reported probably were tents. 25X1 25X1

Site D

This probable instrumentation site, approximately 45 nm southeast of Uka, is located at 57-09N 162-48E and consists of two areas that are

approximately 3,000 feet apart in a north-south direction. A comparison of 1957 [redacted] photography with [redacted] photography reveals that the site has remained basically unchanged. 25X1

Site E

This site, now considered to be a firm instrumentation site, is located at 57-16N 162-45E, approximately 9 nm north of Site D (Figure 6). Although 25X1 [redacted] photography of [redacted] 25X1 25X1 [redacted] precluded analysis beyond that previously reported, 4/ 5/ two new items were noted at the site. The first item is a scarred area approximately 1,400 feet long that is aligned approximately east-west. This activity possibly is construction for an airfield, with the major grading apparently completed. The second item is an unusual track pattern of undetermined significance adjacent to and northwest of the site. The building previously identified as having a large dome on the roof is now believed to be a domed silo with a building attached similar to that at Site A.

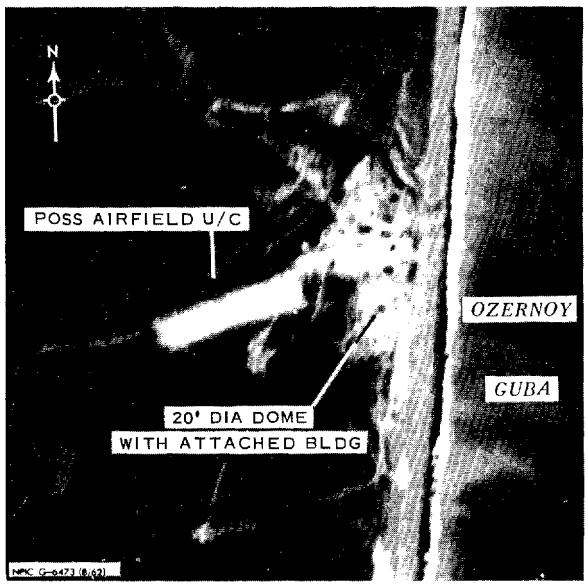

FIGURE 6. INSTRUMENTATION SITE E.

KLYUCHI COMMUNICATIONS CENTER

This center, located at 56-19N 160-51E, is south of the town of Klyuchi and was under construction when observed in 1957 (Figure 3). It probably is the center for transmitting and receiving between the terminal range facilities on the Kamchatka Peninsula and the rangehead at Tyura Tam.

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25X1

[redacted] photography of [redacted] covered this installation, but the scale and quality of the photography precluded a more detailed interpretation than that previously reported. 4/ 5/ No other missile-associated facilities were discernible.

ASSOCIATED MISSILE ACTIVITY

Although a complete search of the Kamchatka Peninsula was prohibited by extensive cloud cover, both [redacted] photography were examined, where possible, for any additional electronics or guided-missile activity. Particular attention was given to Ust'-Kamchatsk, Tigil, Ossora, Petropavlovsk, Ozernoy Poluostrov (Peninsula), Karaginskiy Ostrov (Island), and Komandorskiye Ostrova (Islands). No electronics or guided-missile activity was observed at any of the locations. In particular, no facilities similar to the Hen House electronics installation at the SSATC were identified.

Construction activity, possibly for airstrips, was observed on Beringa Ostrov of the Komandorskiye group and on the beach north of the village of Ossora.

Tigil

25X1

This town, located at 57-46N 158-41E, was covered by Mission [redacted] of [redacted], but clouds and haze prohibit observation of most of the area. On the basis of this coverage, a possible SAM site was reported at this location 6/; however, it has since been negated because the size of the suspect site is only about one-half that of an SA-2 site. This unidentified site may be associated with probable mining activity to the south of the town. Furthermore, a "Missile Site" annotated on USATC Series 200, Sheet 0132-13A, is based on poor collateral and cannot be substantiated from available photography.

Karaginskiy Ostrov

This island, located at 59-00N 164-10E, was scanned on both [redacted] photography. Activity pertaining to electronics or guided-missile activity could not be ascertained on either type of photography. 25X1 25X1

Komandorskiye Ostrova

Beringa Ostrov, located at 55-00N 166-10E, and Mednyy Ostrov, located at 54-45N 167-50E, both in the Komandorskiye group, were scanned on both [redacted] photography, but neither electronics nor guided-missile activity was discernible. However, Mission [redacted] did reveal an area under construction, possibly an airstrip, south of a town on Beringa Ostrov which could have some association with either activity. 25X1 25X1 25X1

Ozernoy Poluostrov

This peninsula, located at 57-40N 162-45E, was scanned on both [redacted] photography. Activity pertaining to neither electronics nor guided-missile activity could be determined from photography. 25X1

Ossora

No electronics or guided-missile activity could be identified in the Ossora area (59-18N 163-09E) from photography. Mission [redacted] did, however, show an area of construction, possibly for an airstrip, on the beach north of the village of Ossora. 25X1 25X1

Petropavlovsk Area

This area (53-05N 158-30E) was scanned on [redacted] photography. No activity pertaining to either electronics or guided-missile activity could be identified from photography. 25X1

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REFERENCES

PHOTOGRAPHY

Mission	Date	Camera	Pass	Frames	Classification
25X1					

MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0132-14A, 1st ed, May 59 (SECRET)

DOCUMENTS

1. NPIC. NPIC/B-1007/61, Missile Tracking Station Near Uka, Kamchatka Peninsula, USSR, Sep 61 (SECRET/ - Downgrading Prohibited) 25X6
2. CIA. PIC/JR-1010/61, Antimissile Complex, Sary Shagan, USSR, Apr 61 (SECRET/ - Downgrading Prohibited) 25X6 25X1
3. 25X1
4. CIA. PIC/JR-2/59, Identification of Tyura Tam Terminal Range Instrumentation, Apr 59 (TOP SECRET SI CODEWORD) 25X1
5. CIA. HTA/JR-4/58, Missile Launching Complex and Test Range, Tyura Tam, USSR, Sep 58 (TOP SECRET) 25X1
6. NPIC. MCI-2/61 , p. 21, Jul 61 (TOP SECRET) 25X1

25X1

REQUIREMENTS

CIA. DDI/OSI/R-81/61

Army. TK SRI 7-1/61

25X1

NPIC PROJECT

JN-174/61